

10/565 434

**WEST Search History****Hide Items****Restore****Clear****Cancel**

DATE: Monday, June 26, 2006

<b>Hide?</b>	<b>Set Name</b>	<b>Query</b>	<b>Hit Count</b>
		<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI; PLUR=YES; OP=OR</i>	
<input type="checkbox"/>	L17	L15 and catechin.clm.	2
<input type="checkbox"/>	L16	L15 with catechin.clm.	0
<input type="checkbox"/>	L15	((reduced or oxidized or oxidised) adj1 glutathione).clm.	295
<input type="checkbox"/>	L14	L13.clm.	0
<input type="checkbox"/>	L13	L11 with catechin	42
<input type="checkbox"/>	L12	L11.clm.	295
<input type="checkbox"/>	L11	(reduced or oxidized or oxidised) adj1 glutathione	4369
		<i>DB=PGPB,USPT,USOC; PLUR=YES; OP=OR</i>	
<input type="checkbox"/>	L10	6013632.pn.	1
<input type="checkbox"/>	L9	6107281.pn.	1
<input type="checkbox"/>	L8	L7 and (glutathione with catechin).clm.	9
<input type="checkbox"/>	L7	(514/18)[CCLS]	2041
<input type="checkbox"/>	L6	(514/18)![CCLS]	2041
		<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI; PLUR=YES; OP=OR</i>	
<input type="checkbox"/>	L5	(treatment or administ\$.clm. and L3	17
<input type="checkbox"/>	L4	(treatment or administ\$) and L3	20
<input type="checkbox"/>	L3	(virus or viral or coronavirus or flavivirus) and L2	20
<input type="checkbox"/>	L2	catechin.clm. and L1	58
<input type="checkbox"/>	L1	glutathione.clm.	2433

END OF SEARCH HISTORY

10/565,434

FILE 'HOME' ENTERED AT 14:57:05 ON 26 JUN 2006

=> b caplus biosis scisearch medline  
COST IN U.S. DOLLARS

FULL ESTIMATED COST  
SINCE FILE ENTRY  
TOTAL  
SESSION  
2.31  
2.31

FILE 'CAPLUS' ENTERED AT 15:03:21 ON 26 JUN 2006  
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FILE 'BIOSIS' ENTERED AT 15:03:21 ON 26 JUN 2006  
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FILE 'SCISEARCH' ENTERED AT 15:03:21 ON 26 JUN 2006  
Copyright (c) 2006 The Thomson Corporation

FILE 'MEDLINE' ENTERED AT 15:03:21 ON 26 JUN 2006

=> s glutathione and catechin  
L1 627 GLUTATHIONE AND CATECHIN

=> s glutathione(P) catechin  
L2 442 GLUTATHIONE(P) CATECHIN

=> s 12 and (virus or viral)  
L3 8 L2 AND (VIRUS OR VIRAL)

=> dup remo 13

PROCESSING COMPLETED FOR L3  
L4 5 DUP REMO L3 (3 DUPLICATES REMOVED)

=> d 14 1-5 bib abs

L4 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN  
AN 2005:74109 CAPLUS  
DN 142:170027

TI Preventive or therapeutic composition containing glutathione  
and/or catechin for viral infectious disease

IN Furukawa, Satoru; Kawabe, Hideo; Otori, Hitoshi; Mukai, Takao; Matsumoto,  
Mitsuyo

PA Kyowa Hakko Kogyo Co., Ltd., Japan  
SO PCT Int. Appl., 32 pp.

DT Patent

LA Japanese

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2005007640	A1	20050127	WO 2004-JP10765	20040722
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GR, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, ME, MG, MK, MN, MW, MX, MY, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VE, VU, ZA, ZM, ZW, RW: BW, GH, GM, KE, LS, MM, MW, NA, SD, SL, SZ, TZ, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GN, GW, GM, ML, MR, NE, SN, TD, TG			
EP 1655222	A1	20060510	EP 2004-748030	20040722
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, A			
JP 2003-199593	A	20030722		
JP 2004-93952	A	20040329		
WO 2004-JP10765	W	20040722		

AB A preventive or therapeutic composition for viral infectious diseases due to virus belonging to the Coronaviridae family or Flaviviridae family comprises at least one substance selected from among reduced glutathione, oxidized glutathione, pharmacologically acceptable salts thereof, and catechin. Also claimed is a preventive or therapeutic composition for viral infectious diseases due to virus belonging to the Coronaviridae family or Flaviviridae family comprising reduced or oxidized glutathione, or a pharmaceutically acceptable salt thereof, and catechin. The antiviral activities of reduced glutathione and of catechin (EGCG) were demonstrated. A composition for nasal administration contained reduced glutathione 1 g, sodium acetate 0.3 g, methylparaben 0.1 g, propylparaben 0.02 g, sodium chloride (appropriate amount), HCl or NaOH (amount needed for adjustment of pH), and water to 100 mL.

RE.CNT 33 THERE ARE 33 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 5 MEDLINE on STN  
AN 2005277513 MEDLINE  
DN PubMed ID: 15921026  
TI Animal models and analytical approaches for understanding the relationships between wine and cancer.  
AU Ebeler S E; Dingley K H; Ubick E; Abel S; Mitchell A E; Burns S A; Steinberg F M; Clifford A J  
CS Department of Viticulture and Enology, University of California, Davis, CA 95616, USA.. seebeler@ucdavis.edu  
NC DK45939 (NIDDK)  
P30 DK35747 (NIDDK)  
RRL3461 (NCRR)  
SO Drugs under experimental and clinical research, (2005) Vol. 31, No. 1, pp. 19-27.  
Journal code: 7802135. ISSN: 0378-6501.

CY Switzerland  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 200509  
ED Entered STN: 31 May 2005  
Last Updated on STN: 20 Sep 2005  
Entered Medline: 19 Sep 2005

AB We used two approaches for studying the relationships between wine consumption, wine composition and cancer in the first approach, a transgenic mouse model of human neurofibromatosis, combined with the use of well-defined, chemically purified diets, showed that red wine contains nonalcoholic components that can delay tumor onset. In additional studies, catechin, the main monomeric polyphenol of red wine, delayed tumor onset in this mouse model in a positive, linear relationship when incorporated into the diet at levels of 0.5-4 mmol/kg diet. In the second approach, low doses of the chemical carcinogen 2-amino-1-methyl-6-phenylimidazo(4,5-b)pyridine (PhIP) were administered to rats, and formation of DNA adducts was evaluated by accelerator mass spectrometry. Consumption of red wine solids (the residue from red wine remaining after removal of alcohol and water) and the wine polyphenol quercetin did not influence PhIP-DNA adduct levels or induce liver enzymes (glutathione-S-transferase and quinone reductase). However, quercetin did alter distribution of PhIP in the rat tissues compared to control animals and animals fed other potential dietary chemopreventive agents, including phenylethyl isothiocyanate and sulforaphane. These studies demonstrate the feasibility of these approaches for studying the chemopreventive potential of dietary components at physiologic levels in

L4 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN  
AN 2004:633154 CAPLUS  
DN 141:167729  
TI Gastrointestinal glutathione peroxidase as therapeutic target for treatment of HCV infection, methods of treating HCV infection, and compounds useful thereof  
IN Herget, Thomas; Cotten, Matthew; Obert, Sabine; Klebl, Bert

PA Germany  
SO U.S. Pat. Appl. Publ., 24 pp., Cont.-in-part of U.S. Pat. Appl. 2003  
180,719  
CODEN: USXXCO  
DT Patent  
LA English  
FAN CNT 4

PATENT NO. DATE APPLICATION NO. DATE  
PI US 2004152073 A1 20040805 US 2003-723719 20031126  
WO 2002084294 A2 20021024 WO 2002-EP4167 20020415  
WO 2002084294 A3 20031030  
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,  
GM, GR, GU, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,  
LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NO, NZ, OM, PH,  
PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ,  
UA, UG, US, UZ, VN, YU, ZA, ZW  
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,  
KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB,  
GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CN, GA,  
GN, GQ, GW, ML, MR, NE, SN, TD, TG

DE 10255861 DE 2002-10255861 20021129  
US 2003180719 A1 20040617 US 2003-342054 20031014  
PRAI US 2001-283345P A1 20030925 US 2003-342054 20031014  
WO 2002-EP4167 A2 20010413  
DE 2002-10255861 A 20020415  
US 2002-430367P P 20021129  
US 2003-342054 A2 20030114  
The present invention relates to the human cellular protein glutathione peroxidase-gastrointestinal as a target for medical intervention against Hepatitis C virus (HCV) infections. Furthermore, the present invention relates to a method for the detection of compounds useful for prophylaxis and/or treatment of Hepatitis C virus infections in an individual or in cells. Also compounds, compounds, nucleic acid moles. (such as aptamers), mono- or polyclonal antibodies are disclosed which are effective for the treatment of HCV infections, and methods for prophylaxis and/or treatment of Hepatitis C virus infections, or for the regulation of Hepatitis C virus production are disclosed. The inventors designed a randomized, single-blinded clin. study to test the safety, tolerability, and efficacy of all-trans retinoic acid alone or in combination with pegylated  $\alpha$  interferon in patients with chronic hepatitis C. The therapy regimens include: Vesanoid (orally administered all-trans retinoic acid compound, Hoffman-La Roche); Pegasys (slow-release pegylated interferon  $\alpha$ 2a, Hoffman-La Roche); and selen 30 ALLACT (supplement containing selenium and ALLACT composed of garlic powder and Lactobacillus bulgaricus).

ANSWER 4 OF 5 CAPLUS COPYRIGHT 2006 ACS ON STN  
L4 2003:757185 CAPLUS  
AN 139:271014  
DN Human cellular protein gastrointestinal glutathione peroxidase as target  
TI for medical intervention against hepatitis C virus infections  
IN Herget, Thomas; Corten, Matthew; Obert, Sabine  
PA Germany  
SO U.S. Pat. Appl. Publ., 23 pp., Cont.-in-part of Appl. No. PCT/EP02/04167.  
CODEN: USXXCO  
DT Patent  
LA English  
FAN CNT 4

PATENT NO. DATE APPLICATION NO. DATE  
PI US 2003180719 A1 20030925 US 2003-342054 20030114  
WO 2002084294 A2 20021024 WO 2002-EP4167 20020415  
WO 2002084294 A3 20031030  
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,  
GM, GR, GU, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,

LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NO, NZ, OM, PH,  
PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ,  
UA, UG, US, UZ, VN, YU, ZA, ZW  
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,  
KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB,  
GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CN, GA,  
GN, GQ, GW, ML, MR, NE, SN, TD, TG  
DE 10255861 DE 2002-10255861 20021129  
US 2004152073 A1 20040617 US 2003-723719 20031126  
PRAI US 2001-283345P A1 20040805 US 2003-723719 20031126  
WO 2002-EP4167 A2 20010413  
DE 2002-10255861 A 20020415  
US 2002-430367P P 20021129  
US 2003-342054 A2 20030114  
The present invention relates to the human cellular protein glutathione peroxidase-gastrointestinal as a target for medical intervention against Hepatitis C virus (HCV) infections. Furthermore, the present invention relates to a method for the detection of compounds useful for prophylaxis and/or treatment of Hepatitis C virus infections in an individual or in cells. Also compounds, compounds, nucleic acid moles. (such as aptamers), mono- or polyclonal antibodies are disclosed which are effective for the treatment of HCV infections, and methods for prophylaxis and/or treatment of Hepatitis C virus infections, or for the regulation of Hepatitis C virus production are disclosed.

ANSWER 5 OF 5 CAPLUS COPYRIGHT 2006 ACS ON STN DUPLICATE 1  
L4 1998:587997 CAPLUS  
AN 129:298362  
TI Inactivation and toxoiding of biologically-active components of Bordetella  
AU pertussis by tea catechins  
CS Watanabe, Mineo; Endoh, Masahiko; Takeo, Tadakazu  
Dep. Microbiol. Biology, Daiichi Coll. Pharmaceutical Sciences, Fukuoka, 815-8511, Japan  
SO Yakugaku Zasshi (1998), 118(9), 415-422  
CODEN: YKKZAJ; ISSN: 0031-6903  
PB Pharmaceutical Society of Japan  
DT Journal  
LA Japanese  
AB An ability of tea catechins known as agents for the disinfection to bacteria and viruses were tested on application for toxoiding bioi.-active components of Bordetella pertussis. The effects on the activities and antigenicity of filamentous hemagglutinin (FHA) and pertussis toxin (PT) were investigated. The activities of FHA and PT were inactivated by catechins at approx. 103 times lower dose (0.2 mM) compared with that of formalin. The activity of inactivated FHA was recovered by dialysis against Tris-HCl buffer, pH 8.0, containing glutathione or Tris-HCl buffer, pH 6.0. But the activity of inactivated PT was not recovered. Antigenicity of catechin-treated antigens were investigated by immunization to mice. The sera from mice immunized by catechin-treated FHA or PT were contained antibody against not only catechin-treated but also non-treated FHA or PT. These results suggest that antigenicity of FHA or PT was not destroyed by the treatment with catechin. We prepared pertussis-component vaccines by treatment of several catechins on the condition that FHA or PT activity was not recovered. Higher efficacy was found in the vaccines made by treatment of epigallocatechin gallate, or epigallocatechin than those by formalin. The vaccine prepared by using epigallocatechin gallate had significant efficacy as good as the formalin treated one. From these results, it is suggested that tea leaf catechins were effective agents for toxoiding of vaccine components.

ANSWER 5 OF 5 CAPLUS COPYRIGHT 2006 ACS ON STN DUPLICATE 1  
L4 1998:587997 CAPLUS  
AN 129:298362  
TI Inactivation and toxoiding of biologically-active components of Bordetella  
AU pertussis by tea catechins  
CS Watanabe, Mineo; Endoh, Masahiko; Takeo, Tadakazu  
Dep. Microbiol. Biology, Daiichi Coll. Pharmaceutical Sciences, Fukuoka, 815-8511, Japan  
SO Yakugaku Zasshi (1998), 118(9), 415-422  
CODEN: YKKZAJ; ISSN: 0031-6903  
PB Pharmaceutical Society of Japan  
DT Journal  
LA Japanese  
AB An ability of tea catechins known as agents for the disinfection to bacteria and viruses were tested on application for toxoiding bioi.-active components of Bordetella pertussis. The effects on the activities and antigenicity of filamentous hemagglutinin (FHA) and pertussis toxin (PT) were investigated. The activities of FHA and PT were inactivated by catechins at approx. 103 times lower dose (0.2 mM) compared with that of formalin. The activity of inactivated FHA was recovered by dialysis against Tris-HCl buffer, pH 8.0, containing glutathione or Tris-HCl buffer, pH 6.0. But the activity of inactivated PT was not recovered. Antigenicity of catechin-treated antigens were investigated by immunization to mice. The sera from mice immunized by catechin-treated FHA or PT were contained antibody against not only catechin-treated but also non-treated FHA or PT. These results suggest that antigenicity of FHA or PT was not destroyed by the treatment with catechin. We prepared pertussis-component vaccines by treatment of several catechins on the condition that FHA or PT activity was not recovered. Higher efficacy was found in the vaccines made by treatment of epigallocatechin gallate, or epigallocatechin than those by formalin. The vaccine prepared by using epigallocatechin gallate had significant efficacy as good as the formalin treated one. From these results, it is suggested that tea leaf catechins were effective agents for toxoiding of vaccine components.

=> d his

(FILE 'HOME' ENTERED AT 14:57:05 ON 26 JUN 2006)  
FILE 'CAPLUS, BIOSIS, SCISEARCH, MEDLINE' ENTERED AT 15:03:21 ON 26 JUN

2006 627 S GLUTATHIONE AND CATECHIN  
442 S GLUTATHIONE(P)/CATECHIN  
8 S L2 AND (VIRUS OR VIRAL)  
5 DUP REMO L3 (3 DUPLICATES REMOVED)

--> s 12(P) composition  
L5 10 L2(P) COMPOSITION  
--> dup remo 15  
PROCESSING COMPLETED FOR L5  
L6 6 DUP REMO L5 (4 DUPLICATES REMOVED)  
--> d 16 1-6 bib abs

L6 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2006 ACS on STN  
AN 2005:74109 CAPLUS  
DN 142:170027  
TI Preventive or therapeutic composition containing  
glutathione and/or catechin for viral infectious disease  
IN Furukawa, Satoru; Kawabe, Hideo; Otori, Hitoshi; Mukai, Takao; Matsumoto,  
Mitsuyo  
PA Kyowa Hakko Kogyo Co., Ltd., Japan  
SO PCT Int. Appl., 32 pp.  
CODEN: PIXX02  
DT Patent  
LA Japanese  
FAN CNT 1

PATENT NO. KIND DATE APPLICATION NO. DATE  
PI WO 2005/07640 A1 20050127 WO 2004-JP10765 20040722  
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, GU, HK, IL, IN, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SD, SE, SG, SK, SL, SY, TJ, TM, TR, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW  
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, BG, CH, CN, CU, DK, DM, DV, EC, EE, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GN, GQ, GW, ML, MR, NE, SN, TD, TG

EP 1655292 A1 20060510 EP 2004-748030 20040722  
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK  
PRAI JP 2003-199593 A 20030722  
JP 2004-93952 A 20040329  
WO 2004-JP10765 W 20040722

AB A preventive or therapeutic compn. for viral infectious diseases due to virus belonging to the Coronaviridae family or Flaviviridae family comprises at least one substance selected from among reduced glutathione, oxidized glutathione, pharmaceutically acceptable salts thereof, and catechin. Also claimed is a preventive or therapeutic compn. for viral infectious diseases comprising reduced or oxidized glutathione, or a pharmaceutically acceptable salt thereof, and catechin. The antiviral activities of reduced glutathione and of catechin (EGCG) were demonstrated. A compn. for nasal administration contained reduced glutathione 1 g, sodium acetate 0.3 g, methylparaben 0.1 g, propylparaben 0.02 g, sodium chloride (appropriate amount), HCl or NaOH (amount needed for adjustment of pH), and water to 100 mL.

RE CNT 33 THERE ARE 33 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 2 OF 6 CAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 1  
AN 2005:451874 CAPLUS  
DN 143:193178

TI Animal models and analytical approaches for understanding the relationships between wine and cancer  
AU Ebeler, S. E.; Dingley, K. H.; Ubick, E.; Abel, S.; Mitchell, A. E.; Burns, S. A.; Steinberg, F. M.; Clifford, A. J.  
CS Department of Viticulture and Enology, University of California, Davis, CA, USA  
SO Drugs under Experimental and Clinical Research (2005), 31(1), 19-27  
CODEN: DECRDP; ISSN: 0378-6501  
PB Bioscience Ediprint Inc.  
DT Journal  
LA English  
AB We used two approaches for studying the relationships between wine consumption, wine compn. and cancer. In the first approach, a transgenic mouse model of human neurofibromatosis, combined with the use of well-defined, chemical purified diets, showed that red wine contains nonalcoholic components that can delay tumor onset. In addnl. studies, catechin, the main monomeric polyphenol of red wine, delayed tumor onset in this mouse model in a pos., linear relationship when incorporated into the diet at levels of 0.5-4 mmol/kg diet. In the second approach, low doses of the chemical carcinogen 2-amino-1-methyl-6-phenylimidazo(4,5-b)pyridine (PhIP) were administered to rats, and formation of DNA adducts was evaluated by accelerator mass spectrometry. Consumption of red wine solids (the residue from red wine remaining after removal of alc. and water) and the wine polyphenol quercetin did not influence PhIP-DNA adduct levels or induce liver enzymes (glutathione-S-transferase and quinone reductase). However, quercetin did alter distribution of PhIP in the rat tissues compared to control animals and animals fed other potential dietary chemopreventive agents, including phenylethyl isothiocyanate and sulforaphane. These studies demonstrate the feasibility of these approaches for studying the chemopreventive potential of dietary components at physiolo. levels in vivo.

RE CNT 27 THERE ARE 27 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2006 ACS on STN  
AN 2004:993351 CAPLUS  
DN 141:427672  
TI Antioxidant composition for alkali ion water  
IN Sanba, Nobuhiko; Ito, Shinobu  
PA Japan  
SO Jpn. Kokai Tokkyo Koho, 14 pp.  
CODEN: JKXNAP  
DT Patent  
LA Japanese  
FAN CNT 1

PATENT NO. KIND DATE APPLICATION NO. DATE  
PI JP 2004323815 A2 20041118 JP 2003-153526 20030423  
PRAI JP 2003-153526 20030423  
AB The title compn. comprises 21 pH neutralizers capable of inhibiting and scavenging free radicals and active oxygen from superoxides, H2O2, NO, hydroperoxides and etc. The pH neutralizers are preferably ascorbic acid or its deriva.,  $\alpha$ -tocopherol, glutathione, catechin, or Tocopherol phosphate. The alkali ion water has a controlled pH of 5-9, preferably 6-8 and redox potential at +250 to -1000, preferably -200 to -800 for inhibiting the occurrence of active oxygen and free radicals by utilizing the antioxidant compn.

L6 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2006 ACS on STN  
AN 2002:406599 CAPLUS  
DN 137:19883  
TI Does coffee drinking influence plasma antioxidant capacity?  
AU Natella, F.; Scaccini, C.  
CS Free Radical Research Group, INFRA, Rome, 00178, Italy  
SO Colloque Scientifique International sur le Cafe (2001), 19th, 17-22  
CODEN: CICRDS  
PB Association Scientifique Internationale du Cafe  
DT Journal; (computer optical disk)

LA English  
AB

Bioavailability, intestinal absorption, and metabolic fate of dietary plant constituents, such as flavonoids and related polyphenols, important for antioxidant protection in humans are still not fully explained. The definition structure phenols includes thousands of compounds with different chemical structures and different antioxidant activities. As the chemical structure is an important determinant for bioavailability, the profile of phenolic compounds in blood plasma can be quite different from that in the original dietary source due to metabolism and biotransformation. Beverages made from plants (white and red wine, green and black tea, beer) were tested for their in vitro and in vivo antioxidant activity. The capacity of a food to transfer its antioxidant activity was linked to several known and unknown chemical, biochemical, and physical characteristics. The effects of food phenols on the in vivo redox balance cannot be determined by a simple extrapolation of the in vitro activity. Coffee contains several phenolic components, besides tocopherols, with antioxidant capacity: chlorogenic acids (esters of cinnamic acids with quinic acid), and free caffeic, ferulic and p-coumaric acids. Black tea contains catechins, thearubigins and theaflavins, which are oxidation products of catechins formed during enzymic oxidation by polyphenol oxidase in fresh tea leaves. The capacity of coffee to affect the blood plasma redox homeostasis was evaluated in humans, using tea as a positive control. In two different sessions, 200-ml doses of brewed coffee or black tea were given under fasting conditions to 10 healthy non-smoker moderate coffee drinkers within 10 min from brewing. Blood plasma collected at 0, 1, and 2 h after coffee/tea intake was analyzed for uric acid,  $\alpha$ -tocopherol, and glutathione (reduced and oxidized). The total antioxidant capacity was determined by measuring the competition with the bleaching of 2 target molecules (l-phycoerythrin and crocin) triggered by peroxyl radicals generated by thermal decomposition of 2,2'-azobis(2-aminopropane) dihydrochloride (AAPH). Bolus ingestion of 200 ml coffee led to 5.5% increase in plasma total antioxidant capacity (l-phycoerythrin test) at 1 h, maintaining a 4% increase after 2 h. The average 4.7% increase at 1 h after tea ingestion did not reach statistical significance due to high variability in individual responses. The antioxidant capacity after coffee ingestion measured by the crocin test had a similar trend in the modulation of antioxidant activity, even when the differences were small. No effect of tea drinking was seen with the crocin test. The discrepancy of the 2 tests used may be due to the capacity of some molecules to affect plasma concentrations of uric acid, coupled with different sensitivity of the 2 tests for uric acid. Only tea drinking increased blood plasma levels of uric acid, a component of the group of molecules with antioxidant activity contributing to the antioxidant capacity as measured by the l-phycoerythrin test, but not by the crocin test. The other parameters of the antioxidant status did not much change, except for significant increases in  $\alpha$ -tocopherol levels 2 h after tea drinking. Thus, the increase of blood plasma antioxidant capacity (determined by crocin test) induced by coffee may be due to antioxidants derived from coffee, while in the case of tea the small increase may be due to increased uric acid levels. It is unclear why tea drinking increases uric acid levels, while coffee drinking does not. Phenolic compounds and quant. proportions of different phenolic classes may be responsible for this phenomenon.

RE.CNT 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2006 ACS ON STN DUPLICATE 2  
DN 1990:513765 CAPLUS  
TI Effect of press design and pressing pressures on grape juice components  
AU Yokotsuka, Koki  
CS Inst. Enol. Vitic., Yamaguchi Univ., Kofu, 400, Japan  
SO Journal of Fermentation and Bioengineering (1990), 70(1), 15-21  
CODEN: JPBIEH; ISSN: 0922-338X  
DT Journal  
LA English  
AB Com.-sized presses were used to press destemmed and crushed Koshi grapes with stems at different pressures. It was found that the composition of the juices was significantly affected by the type of press, pressing

pressure, and presence or absence of stems. The free-run had the highest concentration of glutathione while pressing at moderate pressures yielded juice with very high concentrations of proteins and polyphenoloxidase (PPO). On the other hand, maximum concentrations of phenols including caffeoyl tartrate (caftaric acid), 2-S-glutathionyl caftaric acid (GRP), catechin and epicatechin were found in juices from high pressure pressing. The low concentration of glutathione, when compared to the amounts of caftaric acid and PPO, is one of the major reasons why Koshi juice is very susceptible to browning.

L6 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2006 ACS ON STN  
DN 1983:114897 CAPLUS  
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Effects of dithiocarbamate and (+)-catechin on the glutathione-conjugating system in rat liver cytosol in vivo and in vitro  
Younes, M.; Larseille, J.; Siegers, C. P.  
CS Inst. Toxikol., Med. Hochschule, Luebeck, D-2400, Fed. Rep. Ger.  
SO Pharmacological Research Communications (1982), 14(9), 779-88  
CODEN: PLRCAT; ISSN: 0031-6989

DT Journal  
LA English

The effects of (+)-catechin and dithiocarbamate on the glutathione-conjugating system of rat liver were investigated after a single dose as well as after repeated treatment for 7 and 28 days. The hepatic levels of GSH remained unaffected in all cases. Both agents exerted a significant reduction of the glutathione S-transferase activity towards an epoxide substrate (1,2-epoxy-3-(p-nitrophenoxy)propane) following the application of a single dose (200 mg/kg, per os). A 7-day treatment with either agent had no effect, whereas the treatment for 28 days evoked a dose-dependent inhibition of the epoxide transferase activity. The GSH S-transferase activity towards an aryl substrate (1-chloro-2,4-dinitrobenzene) was depressed after treatment with (+)-catechin for 7 days or 4 weeks. In vitro studies revealed for the aryl transferase activity an inhibition by dithiocarbamate of the competitive type with respect to GSH and of the noncompetitive type with respect to chlorodinitrobenzene. Mixed-type inhibition was found with (+)-catechin with respect to either substrate. As for the epoxide transferase activity, dithiocarbamate exerted a mixed-type inhibition with respect to GSH and a competitive type inhibition with respect to epoxy(nitrophenoxy)propane. (+)-Catechin was inhibitory only with respect to GSH, giving rise to a noncompetitive type inhibition. Apparent  $K_i$  values were 0.3-1 mM.

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FILE 'CAPLUS, BIOSIS, SCISEARCH, MEDLINE' ENTERED AT 15:03:21 ON 26 JUN 2006

L1 627 S GLUTATHIONE AND CATECHIN  
L2 442 S GLUTATHIONE(P)/CATECHIN  
L3 8 S L2 AND (VIRUS OR VIRAL)  
L4 5 DUP REMO L3 (3 DUPLICATES REMOVED)  
L5 10 S L2(P) COMPOSITION  
L6 6 DUP REMO L5 (4 DUPLICATES REMOVED)